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9990/22

October/November 2019

1 hour 30 minutes

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [] at the end of each question or part question.

This document consists of **9** printed pages and **3** blank pages.

Section A

Answer **all** questions in this section.

1 From the study by Piliavin et al. (subway Samaritans):

(a) Identify the main research method used in this study.

.....
 [1]

(b) Explain **one** advantage of using this research method in this study.

.....

 [2]

2 A hypothesis in a study states 'Recall will be better after a short delay than after a long delay'.

(a) Is this a directional (one-tailed) or a non-directional (two-tailed) hypothesis?

Include a reason for your answer.

.....
 [1]

(b) (i) Suggest **one** way to operationalise 'recall' in this study.

.....
 [1]

(ii) Suggest **one** way to operationalise 'short delay and long delay' in this study.

.....
 [1]

- 3 Explain what is meant by a 'sample', using an example from a core study from the biological approach.

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..... [2]

- 4 In the study by Milgram (obedience), the 'primary dependent variable' was voltage.

(a) Explain **two** ways in which this measure was valid.

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2

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..... [4]

(b) Explain **one** way in which this measure was **not** valid.

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..... [2]

- 5 (a) State what is meant by 'participant variables'.

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..... [1]

- (b) Suggest **one** participant variable that could have been important in the study by Schachter and Singer (two factors in emotion).

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..... [1]

- 6 Describe **one** similarity and **one** difference between an independent measures design and a repeated measures design, using any examples.

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..... [6]

Section B

Answer **all** questions in this section.

7 Dr Shah is conducting a naturalistic observation in a children's play area.

(a) Suggest **two** ways that Dr Shah could make her study ethical.

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2

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[4]

(b) State why this study is a 'naturalistic observation'.

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..... [1]

(c) Suggest how Dr Shah could conduct her study if she were a covert, non-participant observer.

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..... [4]

- 8 Sonia is conducting a study using drivers queueing in traffic. Her hypothesis is 'There will be a positive correlation between frustration and anger in drivers'. Sonia measures anger by asking each driver to rate how angry they feel on a rating scale from 0 (calm) to 5 (very angry).

(a) Suggest **one** way that Sonia could measure frustration in this study, other than using a rating scale.

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..... [2]

(b) Explain **one** strength of using the measure of frustration you have suggested in part (a).

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..... [2]

(c) Write a null hypothesis for Sonia's study.

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..... [1]

(d) Identify a measure of central tendency that Sonia could use on her 'anger' data.

Include a reason for your answer.

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..... [2]

- 9 Zach is planning a study using laboratory rats to investigate whether they will copy a rat which acts as a model by eating unusual foods. He is aware of the ethical guidelines for using animals in experiments.

(a) Suggest **one** reason why it is more ethical for Zach to test the copying of eating behaviour rather than the copying of aggression.

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..... [2]

(b) Suggest **one** practical reason why the rat is a good species to choose for this study.

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(c) Zach decides to measure the effect of the model by observing the similarities in eating behaviour between the learner rat and the model rat.

Explain whether this measure is valid.



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..... [2]

(d) Explain **one** strength of observations.

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..... [2]

10 Fahim is planning an interview study to investigate the types of dreams people have. He wants to collect a range of data using different types of questions.

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- This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.

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..... [10]

- (b) Identify **one** practical weakness/limitation with the procedure you have described in your answer to part (a) and suggest how your study might be done differently to overcome the problem.

Do **not** refer to ethics or sampling in your answer.

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..... [4]

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